



**DEFENCE ORIENTED SSB AND PERSONALITY DEVELOPMENT  
PROGRAM**

## **OIR MOCK TEST 5**

### **ANSWER KEY**

1	B	2	C	3	B	4	B	5	D
6	A	7	C	8	B	9	C	10	C
11	C	12	C	13	D	14	D	15	C
16	B	17	C	18	C	19	B	20	A
21	C	22	D	23	C	24	C	25	B
26	D	27	A	28	B	29	B	30	B
31	B	32	D	33	A	34	D	35	C
36	C	37	B	38	C	39	B	40	C
41	B	42	C	43	D	44	C	45	D



## DETAILED SOLUTIONS

Q1	(b) 15°	At 6:30 — Minute hand points to 6 (= 180° from 12). Hour hand at 6:00 is at 180°; it moves 0.5° per minute. In 30 minutes it moves: $30 \times 0.5^\circ = 15^\circ$ . Hour hand position = $180^\circ + 15^\circ = 195^\circ$ . Angle between hands = $ 195^\circ - 180^\circ  = 15^\circ$ .
Q2	(c) Y	Rearranged sentence: 'Honesty is always the best policy.' Last word = POLICY. Last letter = Y.
Q3	(b) Surgeon	A handsaw is the primary tool used by a carpenter. A scalpel is the primary tool used by a surgeon. Answer: Surgeon.
Q4	(b) EV	First letters: A, B, C, D → each +1 → next = E. Second letters: Z, Y, X, W → each -1 → next = V. Answer: EV.
Q5	(d) Absurd	A frozen river is solid ice — it cannot flow. The statement is self-contradictory and physically impossible, making it Absurd.
Q6	(a) 43	Series: 3, 7, 13, 21, 31, ____ Differences: +4, +6, +8, +10 → increasing by 2 each time. Next difference = +12. So: $31 + 12 = 43$ .
Q7	(c) Viewer	A radio broadcast is intended for a listener. A film is made to be watched by a viewer. Answer: Viewer.
Q8	(b) U6	First symbol: Z, Y, X, W, V → decreasing by 1 each → next = U. Number: 1, 2, 3, 4, 5 → increasing by 1 → next = 6. Answer: U6.
Q9	(c) Ostrich	Crow, Sparrow and Cuckoo can all fly. Ostrich is a flightless bird — the odd one out.
Q10	(c) Aunt	A is B's sister → A and B are siblings. B is C's brother → B and C are siblings, so A, B, C are all siblings. C is D's mother → D is C's child. A is C's sister → A is the aunt of D.
Q11	(c) 45	Rule: Col 1 × Col 2 = Col 3. Row 1: $4 \times 7 = 28$ ✓ Row 2: $6 \times 8 = 48$ ✓ Row 3: $5 \times 9 = 45$ .
Q12	(c) 57	Each letter is replaced by its alphabetical position, then all are summed. MOON: M=13, O=15, O=15, N=14 → $13+15+15+14 = 57$ .
Q13	(d) Sketch	Alphabetical comparison: Si-n-c < Si-n-g < Si-t < Sk. Sketch begins with 'Sk' which comes after 'Si' — so Sketch is last.
Q14	(d) 200	$196 = 14^2$ , $225 = 15^2$ , $256 = 16^2$ — all are perfect squares. 200 is NOT a perfect square ( $\sqrt{200} \approx 14.14$ ).
Q15	(c) 48, 192	Pattern alternates: ÷2, ×4, ÷2, ×4, ... $48 \div 2 = 24$ , $24 \times 4 = 96$ , $96 \div 2 = 48$ , $48 \times 4 = 192$ . Next two terms: 48 and 192.
Q16	(b) 4 km West	Start at X(0,0). Walk 6 km North → (0,6). Turn left (now facing West), walk 4 km → (-4, 6). Turn left (now facing South), walk 6 km → (-4, 0). Distance from X = 4 km, direction = West.
Q17	(c) 5	Scanning the sequence for 3 immediately followed by 7: [3 7] 5 [3 7] 8 2 [3 7] 1 4 6 [3 7] 9 3 2 7 4 [3 7] 6 5 3 4 7 Found at positions: (1,2), (4,5), (8,9), (13,14), (20,21) = 5 times.
Q18	(c) Noon	Chronological order: Midnight(2) → Sunrise(1) → Noon(3) → Sunset(4) → Dusk(5). The 3rd item in the ordered sequence = Noon.

Q19	(b) No cat is a bird	From Statement 1: All cats belong to the set of animals. From Statement 2: No animal is a bird. Therefore: No cat (being an animal) can be a bird. Conclusion (b) follows.
Q20	(a) 2	Substituting: $+ \rightarrow \div$ , $- \rightarrow +$ , $\div \rightarrow \times$ , $\times \rightarrow -$ Expression becomes: $16 \div 4 + 3 \times 2 - 8$ Using BODMAS: $(16 \div 4) + (3 \times 2) - 8 = 4 + 6 - 8 = 2$ .
Q21	(c) 16 years	Let $A = 4x$ and $B = 5x$ . After 8 years: $(4x+8) / (5x+8) = 6/7$ . Cross-multiplying: $7(4x+8) = 6(5x+8) \rightarrow 28x+56 = 30x+48 \rightarrow 2x = 8 \rightarrow x = 4$ . A's present age = $4 \times 4 = 16$ years.
Q22	(d) Vision	Alphabetical: Vi-b < Vi-l < Vi-r < Vi-s. Vision (Vi-s) comes after Vibrant, Village, Virtue — so Vision is last.
Q23	(c) 63	Rule: each term = (previous term $\times$ 2) + 1. $1 \rightarrow 3$ : $1 \times 2 + 1 = 3 \checkmark$ $3 \rightarrow 7$ : $3 \times 2 + 1 = 7 \checkmark$ $7 \rightarrow 15$ : $7 \times 2 + 1 = 15 \checkmark$ $15 \rightarrow 31$ : $15 \times 2 + 1 = 31 \checkmark$ Next: $31 \times 2 + 1 = 63$ .
Q24	(c) Flout	Curb means to restrain; Spur means to encourage — they are OPPOSITES. Revere means to deeply respect. Its opposite is Flout (to treat with contempt).
Q25	(b) SBL, ZKW	Starting letters of each group: A(1), D(4), H(8), M(13), S(19), Z(26). Differences: +3, +4, +5, +6, +7 — increasing by 1 each time. Within each group, internal gaps also increase by 2 each group: ABD (+1,+2), DGK (+3,+4), HMS (+5,+6), MTB (+7,+8). 5th group from S(19): $S+9=B(28-26=2)$ , $B+10=L(12) \rightarrow$ SBL $\checkmark$ 6th group from Z(26): $Z+11=K(37-26=11)$ , $K+12=W(23) \rightarrow$ ZKW $\checkmark$
Q26	(d) Fox	Cat, Tiger and Lynx are all members of the Felidae (cat) family. Fox belongs to Canidae (dog family) — the odd one out.
Q27	(a) Only I — Some pens are stationery	From Statement 2: All pencils are stationery. From Statement 1: Some pens are pencils $\rightarrow$ those pens are also stationery. Conclusion I (Some pens are stationery) DEFINITELY follows. Conclusion II (All stationery are pencils) does NOT follow — it is the converse and not implied.
Q28	(b) 27	Rahul's position from the LEFT = $60 - 19 + 1 = 42$ nd. Students between Priya (14th) and Rahul (42nd): $42 - 14 - 1 = 27$ .
Q29	(b) JLNP	ACEG $\rightarrow$ BDFH: each letter increased by 1 ( $A+1=B$ , $C+1=D$ , $E+1=F$ , $G+1=H$ ). IKMO (positions 9,11,13,15): each +1 $\rightarrow$ J(10), L(12), N(14), P(16) = JLNP.
Q30	(b) Students did not study hard enough	The statement says the teacher put in BEST EFFORTS — so option (a) is ruled out. There is no evidence for an unusually hard exam (c) or school facilities issue (d). The most logical explanation is that the 15 students themselves did not study sufficiently.
Q31	(b) Thursday	2025 is not a leap year $\rightarrow$ 365 days = 52 complete weeks + 1 extra day. January 1, 2025 = Wednesday. Adding 1 day: January 1, 2026 = Thursday.
Q32	(d) Y	Rearranged sentence: 'We cannot blame the public entirely.' Last word = ENTIRELY. Last letter = Y.
Q33	(a) UVWFGPV	Each letter in TEACHER is shifted +2: T $\rightarrow$ V, E $\rightarrow$ G, A $\rightarrow$ C, C $\rightarrow$ E, H $\rightarrow$ J, E $\rightarrow$ G, R $\rightarrow$ T = VGCEJGT $\checkmark$ Applying same rule to STUDENT: S(19) $\rightarrow$ U(21), T(20) $\rightarrow$ V(22), U(21) $\rightarrow$ W(23), D(4) $\rightarrow$ F(6), E(5) $\rightarrow$ G(7), N(14) $\rightarrow$ P(16), T(20) $\rightarrow$ V(22) Code = UVWFGPV.
Q34	(d) STUV	BDFH: B,D,F,H — each letter is +2 from the previous (skip one letter). CEGI: C,E,G,I — each +2 $\checkmark$ . LNPR: L,N,P,R — each +2 $\checkmark$ . STUV: S,T,U,V — each is only +1 (consecutive letters, no skipping). Odd one out.
Q35	(c) Upper	Alphabetical order: Apex(A) < Plural(P) < Surface(S) < Upper(U). Upper begins with 'U', which is the last letter alphabetically among the options.
Q36	(c) Oyster	Lizard, Earthworm and Spider are all land-dwelling creatures. Oyster is a marine mollusc that lives in water — the odd one out.

Q37	(b) A	Rearranging PLAOTP → LAPTOP. Second letter of LAPTOP = A.
Q38	(c) H	Rearranging EFSLH → SHELF. Second letter of SHELF = H.
Q39	(b) IR	First letters: A(1), C(3), E(5), G(7) — each +2 → next = I(9). Second letters: Z(26), X(24), V(22), T(20) — each -2 → next = R(18). Answer: IR.
Q40	(c) 56	The series follows the pattern $n \times (n+1)$ : $1 \times 2 = 2$ , $2 \times 3 = 6$ , $3 \times 4 = 12$ , $4 \times 5 = 20$ , $5 \times 6 = 30$ , $6 \times 7 = 42$ . Next: $7 \times 8 = 56$ .
Q41	(b) 60	Let cars = c, bicycles = b. Equations: $c + b = 150$ and $4c + 2b = 420$ . From equation 2: $2c + b = 210$ . Subtracting equation 1: $c = 60$ .
Q42	(c) Astronomer	A doctor uses a stethoscope as a primary diagnostic tool. An astronomer uses a telescope as a primary observational tool. Answer: Astronomer.
Q43	(d) 169	Each term is the square of a successive prime number. $2^2=4$ , $3^2=9$ , $5^2=25$ , $7^2=49$ , $11^2=121$ — next prime is 13. $13^2 = 169$ .
Q44	(c) 16	Rule: Col 3 = Col 2 × 2. Row 1: $4 \times 2 = 8$ ✓ Row 2: $6 \times 2 = 12$ ✓ Row 3: $8 \times 2 = 16$ .
Q45	(d) Wrench	Hammer, Chisel and Saw are all tools used primarily by a carpenter. A wrench is used by a mechanic or plumber — it does not belong to the carpenter's toolkit.